(10)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Construction of drain and improvements of culverts at Hebbala sarovara layout in ward no. 08 Kodigehalli**

Estimated Cost : **40.00 Lakhs**

Job Code : **008-18-000072**

BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work : Construction of drain and improvements of culverts at Hebbala sarovara layout in Ward no. 08 Kodigehalli.

Ward No.08 **Estimated Cost Rs: 4000000.00**

Sl No	Description of work	No	Dimensions L	B	D	Qty	Rate	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	KSRB 2-2.2:Earthwork excavation for foundtion of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **Ordinary Soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications Specification No.KBS 2.1(b)/2.3.5 **PWD SR 2016-17 (P-5, It,-2.3)**								
	Balaji Layout 5th A main	2	163.00	1.10	0.90	322.74			
	5th cross	2	65.00	0.90	0.90	105.30			
	Hebbal Sarovara Rd	1	150.00	1.10	0.90	148.50			50112.85
					Total	**576.54**	**200.34**	Cum	115504.00
	Basic Rate	189.00	82				86.92		
	Add AW 6%	11.34	4.92						
	Total	**200.34**	86.92						
2	KSRRB M 200-12.1. Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable materail with all lifts complete as per specifications (page No. 137, item No. 18.17)								
	Existing Culverts	3	5.00	1.50	0.20	4.50			
					Total	**4.50**	**327.54**	Cum	1474.00
	Basic Rate	309.00							
	Add AW 6%	18.54							
	Total	**327.54**							

3	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m. **(P-258,It.37.48)**								
	Existing Culverts	6	5.00	0.60	0.60	10.80			
						10.80			
	Deduction for Missing (40%)					**4.32**			
					Total	**6.48**	**182.32**	**Cum**	**1181.00**
	Basic Rate	172.00							
	Add AW 6%	10.32							
	Total	**182.32**							
4	KSRB 4-1.3:Providing and layingi n position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machienry, curing complete as per specifications. Specification No.KBS 4.1, 4.2 **PWD SR 2016-17 (P-12, It.4.3)**								
	Balaji Layout 5th A main	2	163.00	1.10	0.15	53.79			
	5th cross	2	65.00	0.90	0.15	17.55			
	Hebbal Sarovara Rd	1	150.00	1.10	0.15	24.75			
	For Culverts	3	5.00	1.80	0.15	4.05			
					Total	**100.14**	**5159.02**	**Cum**	**516624.00**
	Basic Rate	4867.00							
	Add AW 6%	.292.02							
	Total	**5159.02**							
5	Reconstruction of size stone masonry with available stones in C.M 1:6 as per direction of the Engineer-in-charge.								
					Qty of It No 5	**6.48**			
					Total	**6.48**	**2701.94**	**Cum**	**17509.00**
	Basic Rate	4187.00	A						
	Deduct Cost Of Stone	**1365.00**	B						
	Deduct over head charges	**136.50**	C						
	Deduct 10% contractor profiton B	**136.50**	D						
	Total	**2549.00**	A-(B+C+D)						

	Add AW 6%	**152.94**							
	Total	**2701.94**							
6	*KSRB 5.2-3:Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications.* ***PWD SR 2015-16 (P-23, It5.6)***								
	New Culverts	*6*	*5.00*	*0.45*	*0.60*	*8.10*			
Deduct available stone qty						*6.48*			
					Total	***1.62***	**4521.96**	**Cum**	***7326.00***
	Basic Rate	*4187.00*							
	Add AW 8%	*334.96*							
	Total	**4521.96**							
7	*KSRB 4.2.2:Providing andlaying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @0.878 cum and fine aggregates @ 0.459 cum, with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed - 2008, machine mixed, concrete laid in layres not exceeding 15 cms, thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase,lintles, retaining walls, return walls, walls (any thickness) includng attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills fillets etc, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.6* ***PWD SR 2016-17 (P-13, It.4.11)***								
	Bottom Slab								
	Balaji Layout 5th A main	*2*	*163.00*	*0.90*	*0.15*	*44.01*			
	5th cross	*2*	*65.00*	*0.75*	*0.15*	*14.63*			
	Hebbal Sarovara Rd	*1*	*150.00*	*0.90*	*0.15*	*20.25*			
	Side Wall								
	Balaji Layout 5th A main	*4*	*163.00*	*0.15*	*0.60*	*58.68*			
	5th cross	*4*	*65.00*	*0.15*	*0.60*	*23.40*			
	Hebbal Sarovara Rd	*2*	*150.00*	*0.15*	*0.60*	*27.00*			
						187.97	***6371.66***	***Cum***	***1197649.00***
	Basic Rate	*6011.00*							

	Add AW 6%	360.66							
	Total	**6371.66**							
8	*KSRB 4.9-1:Providing T.M.T Steel reinforcement for RCC Work including straightening, cutting, bending hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wasstge shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No.KBS 4.6.3* ***PWD SR 2016-17 (P-17, It.4.46.2)***								
Qty @ 50Kg/Cum			0.05	187.97		9.40			
					Total	**9.40**	**64243.42**	**Tonne**	**603776.00**
	Basic Rate	60607.00							
	Add AW 6%	3636.42							
	Total	**64243.42**							
9	*KSRB 4-6.4:Providing and removing centering, shuttering, strutting proppoing etc, and removal of formwork for Vertical surface such as walls at any thickness including attached pilasters butresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2* ***PWD SR 2016-17 (P-15, It.4.31)***								
	Balaji Layout 5th A main	8	163.00		0.60	782.40			
	5th cross	8	65.00		0.60	312.00			
	Hebbal Sarovara Rd	4	150.00		0.60	360.00			
					Total	**1454.40**	**310.58**	**Sqm**	**451708.00**
	Basic Rate	293.00							
	Add AW 6%	17.58							
	Total	**310.58**							
10	*Providing and fixing 10 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification* ***(Data Rate Approved)***								
	Balaji Layout 5th A main	2	163.00		0.90	293.40			
	5th cross	2	65.00		0.75	97.50			

	Hebbal Sarovara Rd	1	150.00		0.90	135.00			
					Total	**525.90**			
	Deduct available	270	0.60		0.90	145.80			
					Net Qty	380.10	**2100.00**	**Sqm**	**798210.00**
	Data Rate	**2100.00**							
11	KSRB 4-1.6:Providing and laying in position plain cement concrete of mix M15 with cement @ 240 Kgs, with 20mm and down size graded granite metal coarse aggregtes @ 0.878 cum and line aggregates @ 0.459 cum,machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.2 **PWD SR 2016-17 (P-12, It.4.6)**									
	Slope								
	Balaji Layout 5th A main	2	163.00	0.30	0.10	9.78			
	5th cross	2	65.00	0.30	0.10	3.90			
	Hebbal Sarovara Rd	1	150.00	0.30	0.10	4.50			
	Culvert coping	6	5.00	0.45	0.10	1.35			
						19.53	**5767.46**	**Cum**	**112638.00**
	Basic Rate:	5441.00							
	Add AW 6%	326.46							
	Total	**5767.46**							
12	Providing and fixing 25 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification **(Data Rate Approved)**								
	Culverts	25	1.50	0.60		22.50			
					Total	**22.50**	**5111.00**	**Sqm**	**114998.00**
	Data Rate	**5111.00**							

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13	*KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 PWD SR 2013-14* ***(P-144 & 133, It.No. 17.1)***								
	Qty Vide Item.1					*576.54*			
					Total	***576.54***	***106.00***	***Cum***	*61113.00*
	Basic Rate	*68.00*							
	Conveying for 10Km 10 x 1.28 x 2.5	*32.00*							
	Sub total	***100.00***							
	Add AW 6%	*6.00*							
	Total	***106.00***							5681.15
14	*Miscellaneous & Rounding off:*							*L/S*	*290.00*
							Grand Total Rs:		*4000000.00*

(RS. FOURTY LAKHS ONLY)

CERTIFICATE:

1. *The work spot has been inspected and found to be necessary*
2. *The work spot comes under BBMP Limits*
3. *The provisions made in the estimate are necessary and minimum*
4. *The estimate is based on CSR of 2016-17.*

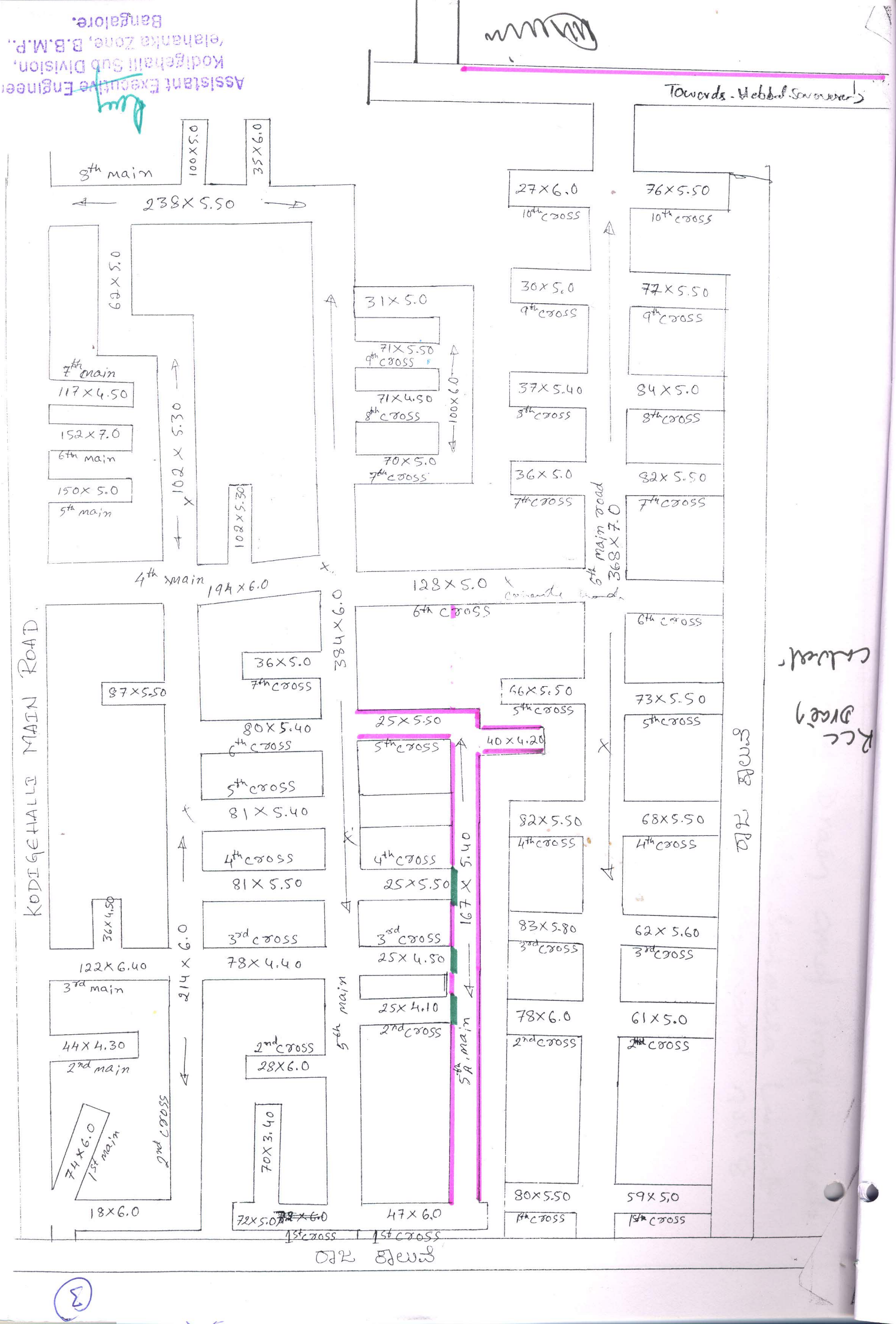
Assistant Engineer
Ward No.08

Assistant Executive Engineer
Kodigehalli Sub-Division
Bruhat Bengaluru Mahanagara Palike

Executive Engineer 01/06
Byatarayanapura Division
Bruhat Bengaluru Mahanagara Palike

ADMINISTRATIVELY SANCTIONED FOR Rs.....
Rupees Forty lakhs Rs. 40.00 lakhs only
Under P1771
Registered as EE ( ) No 9.....9....
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/Sanctioned
Rs 40.00 lakhs No 02
dated 08.06.18
Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92

Technical Sanction
Accorded For Rs 40 lakhs only
Head of A/C P 1771
CER NO :16A Dt: 26.06.2018
TA CE (YNK)



Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka zone, B.B.M.P.,
Bangalore.

Kodigehalli Main Road

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